Precautions for use of 3500xL

[User Registration]

Users must complete the prescribed registration procedures.
Registration Qualifications: (1) those who are skilled in the usage of this analyzer, (2) those who have attended a manufacturer's training course, and (3) those who have been received instruction from a skilled person.
%Please note that each Lab will be responsible for repair costs in case of malfunction due to misuse.

[Make a reservation for your usage]

- You need to make a reservation by noon the day before. (Except holidays; Reservations for Saturday, Sunday and/or Monday must be made by the previous Friday.) Depending on the reservation status, the polymer filling or the buffer replacement will be postponed.
- 2) If you wish to make a last-minute reservation, please contact the Management Office (ext. 8165).
- 3) Please put 30 minutes between each appointment. It will allow to deal with unexpected trouble.
- 4) When there is any change with your reservation, you have to amend immediately.

[How to Use]

Applied Biosystems MicroAmp Optical 96-Well Reaction Plate: N8010560

1) Sample

Use a dedicated 96-well plate and make sure there are no air bubbles in the wells. (Centrifuge samples to remove bubbles.)

2) Empty wells

·24 samples will be run per "1 run" (A1-H3, A4-H7, etc.). When you have the empty well, please put more than 10 μ L of solvent into the empty well. It prevents capillary clogging.

<Examples>

- Sample dissolved in Hi-Di formamide: Same volume of Hi-Di formamide as sample.
- Sample purified with BigDye XTerminator:
 Same volume of deionized water as sample

3) Plate Assembly «Important!»

- Align the hole of the septa strip with the well and press it correctly.
- ② Place the 96-well plate in close contact with the plate base.
- ③ Snap the retainer firmly onto the plate base.



- ④ Verify that the holes in the retainer and septa are correctly aligned.
- ⑤ Place the plate base by hooking it onto the hook in the center of the deck, and also hook the side of the deck.

4) Analysis mode

Errors can occur in Rapid and Fast runs if the polymer has been opened too long. To use polymers efficiently, use in <u>Standard</u> runs.

5) Door

Close tightly. The laser will stop if it detects that the door is open.

6) Logbook

Be sure to fill in the logbook at the beginning of use.



7) Data

•All sequence results will be automatically saved in the "Data" folder.

- ·Do not create a personal Data folder.
- •The results of the sequence data saved in the "Data" folder will be deleted after about four months; therefore, please export your data for yourself.
- Data should be saved on your USB flash drives, CD-R/RW or DVD-R/RW. USB flash drives must be checked for viruses with a nearby computer dedicated to virus checking.
- 8) When turning off the power

When you turn off the instrument, confirm that capillary end is soaked into buffer.

[Other notes]

- 1) Do not operate the PC or instrument while others are using it.
- 2) If the previous user's sample remains in the instrument, remove it and place it beside the instrument before you start.
- 3) The limitation of capillary usage is 160-times. However, it is pretty expensive, as about 300,000 yen. To save the cost, we replace it when "Test Run" presents bad data. When you recognize any bad or wired data with your running, please let us know.

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